P.W.G. 17 | Original/Duplicate/Triplicate

NO. | 1st and final Bill | **CONTRACT CERTIFICATE** | Reference paras 168 & 170

AEE YSTSD
SBR No: 1517-18
Date: 3/5/17

Division Yelahanka | Sub division Yelahanka New Town | Date

Bills received No | Date | Sub-divisional | Cash book vr No

YNK-DBR No. 24
Date 09.05.17

Sheduled Docket No | Divisional | Date

Head of account

Name of work(as per sanctioned estimate) :- NAME OF WORK :Asphalting to roads and improvements to drains in Yelahanka 4th phase, SFS 407, SFS 208, SFS 707 main and cross roads and some parts of Ananthpura village of Attur ward no 03

Work Code:003-17-000013

Name of contractor and full address :- | Technical Manager (west)

Reference to agreement No :- 145 | Estimated cost : 50.00 | Work O.No :145, dt:31/03/2017

Certified that the measurments were taken by me on and recorded on pages 465902 to 465922 of measurment book No 4660 and the work is satisfactorily executed by the contractor.

Executive Engineer
Byatarayanapura Sub-division
KRIDL BBMP, Bangalore

Signature of contractor

Asst. Engineer

Certified that the measurments were taken by me on and recorded correct.The work is satisfactorily executed.

Certified that the quantities of materials shown in column 3 of account II have been actualy brought to site of work and the contractor has not previously received any advance on this security. These materials are of any imperishable nature and are all required by the contractor for immidiate use on the work in connection with items for which rates finished work have been agreed upon.A formal agreement signed and executed by the contractor is recorded in divisional office.

Sub-divisional officer

II MEMORANDUM OF PAYMENT

1) Total value of work done or supplies as per A/c within		
2) Deduct amount to be held in reserve being-----percent Rs----------%---------		
3) Balance---	1 st Final	4833063:00
4) Deduct payments		
a) Amount of previous payment as in divisional/sub divisional cash book vr No----------dated----------S.D No----------Amount adjusted towards cash advance recovery of	FSD	241654:00
	IT	96662:00
b) Cost of payments/stores or other materials supplied now made recovery of	KST	193323:00
	LC	48331:00
Amount paid on this bill by cheque/cash	CRF	4834:00
Total	LR	85079:00
5). Balance being unpaid value of work done held in reserve		
6) Deduct cash of advance made on divisional/sub divisional cash book		
7) Net amount due to or from contractor.	T.D	669883:00
UN ADJUSTED ITEMS	Net	4163180:00
8) Advance to contractor for materials to site(as detailed within)		
9) Value of government materials supplied.		
TOTAL AMOUNT UN-ADJUSTED		

Contractor's signatures

Executive Engineer
Byatarayanapura Sub-division
KRIDL BBMP, Bangalore

Received Rs----------(in words)----------

For use in the Executive Engineer's office----------

of payment as per memorandum
(in final settlement of all demand)
Witness
1)
2)

Reciept Stamp

Audited & Admitted for Rs. 4833063:00

4163180:00 by Cheque

and Rs. 669883:00 by adjusement

Executive Engineer
Byatarayanapura Sub-division
KRIDL BBMP, Bangalore

Dated signature of contractor

paid by me cheque No dated

Cash Rs.....

Initials of officer making payment

Date

Executive Engineer
Yelahanka Division

Sl. No	Items grouped under Sub-heads and Sub-works of the estimate	Unit	Present Measurement			Total Up to date	
			Qty	Rate	Amount	Qty	Cost
1	2	3	6	7	8	9	10
1	Removing & Refixing Stone Slabs of drains and Pointing in C.M(1:3).	Sqm	483.60	80.56	38958.82	483.60	38958.816
2	KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 1.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3	Cum.	190.97	86.92	16599.11	190.97	16599.1124
3	KSRB 4-1.2 : Providing and laying in position plain cement concrete of mix1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregtes @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted,in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications.Specification No. KBS 4.1, 4.2	Cum.	1.46	5348.76	7809.19	1.46	7809.1896
4	KSRB 4-1.6 ; Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @0.878cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation,plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2	Cum.	8.65	5757.46	49802.03	8.65	49802.029

Sl. No.	Items grouped under Sub-heads and Sub-works of the estimate	Unit	Present Measurement			Total Up to date	
			Qty	Rate	Amount	Qty	Cost
5	Providing and laying Plain /reinforced cement concrete for side drains wall and bottom thickness 15cm using M20 nominal mix concrete with OPC cement at 300kg with 20mm and down size granite metal coarse aggregate at 0.69 cum and fine aggregate at 0.43 cum machine mixed well compacted for walls at bottom including centring shuttering cost of materials HOM of machineries curing etc.completeexcluding cost of steel as per MORTH specification No.1500,1700,2200	Cum.	3.64	11032.38	40157.86	3.64	40157.8632
6	KSRB 4.9.2 : Providing T .M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 for TMT Bars Fe500	qtl	0.23	59413	13664.99	0.23	13664.99
7	KSRB 5.2-3. Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar 1:6, stone hammered dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13	Cum.	5.04	4438.22	22368.63	5.04	22368.6288

Sl. No	Items grouped under Sub-heads and Sub-works of the estimate	Unit	Present Measurement			Total Up to date	
			Qty	Rate	Amount	Qty	Cost
8	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc., complete. 10cm thick	Sqm	260.4	825.74	215022.70	260.40	215022.696
9	Providing precast slab of 100 mm thick including cost of all materials, labour, curing,transportation,loading ,unloading,etc.,complete as per the direction of engineer in charge-	Sqm	375.39	1757.00	659560.23	375.39	659560.23
10	Providing precast slab of 250 mm thick including cost of all materials, labour, curing,transportation,loading ,unloading,etc.,complete as per the direction of engineer in charge-	Sqm	7.20	4725.00	34020.00	7.20	34020
11	Removing and resetting of kerb stones	Sqm	171.2	65.72	11251.26	171.20	11251.264
12	Providing and fixing pre cast solid cement concrete kerb stones made out of C.C. 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including formwork,curing,including cost of all materials, labour, hire charges of machinery, loading,unloading, lead and lift, transportation etc., complete	Cum.	312	331.78	103515.36	312.00	103515.36

Sl. No	Items grouped under Sub-heads and Sub-works of the estimate	Unit	Present Measurement			Total Up to date	
			Qty	Rate	Amount	Qty	Cost
13	KSRRB M300-14. Excavation for roadwork in all type of soil with hydraulic excavator of 0.9 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to the embankment location to a lead of 1.00 km and complete as per specifications. MORTH Specification No.301	Cum.	194.4	48.76	9478.94	194.40	9478.944
14	KSRRB M400-6.1. Construction of granular sub-base by providing close graded material, crushed stone aggregates of granite/trap/basalt material, mixing in a mechaical mix plant at OMC, carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per specifications. A. Plant Mix Method.Close graded granular sub-base material as per 400-1 For Grading- II Material	Cum.	72.9	1665.26	121397.45	72.90	121397.454

Sl. No	Items grouped under Sub-heads and Sub-works of the estimate	Unit	Present Measurement			Total Up to date	
			Qty	Rate	Amount	Qty	Cost
15	KSRRB M400-17. Providing, laying, spreading and compacting crushed stone aggregates of granite/trap/basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406	Cum.	121.5	1768.08	214821.72	121.50	214821.72
16	KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WBM,WMM ,including clearing of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per Specifications. MORTH Specification No. 502	Sqm	486.00	27.56	13394.16	486.00	13394.16
17	KSRRB 500-2. Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH / Chapter 5	Sqm	6225.00	3.18	19795.50	6225.00	19795.5

Sl. No	Items grouped under Sub-heads and Sub-works of the estimate	Unit	Present Measurement			Total Up to date	
			Qty	Rate	Amount	Qty	Cost
18	KSRRB 500-7. Providing and applying tack coat using 80/100 grade Bitumen (VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm , heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH/Chapter 5	Sqm	6714.00	11.66	78285.24	6714.00	78285.24
19	KSRRB M500- 17. Providing, laying dense graded bituminous macadam using 40/60 TPH capacity H.M.P with Mechanical paver Gr-II(50mm to 75mm), crushed aggregates of specified grading premixed with 4.5% VG 30 grade bituminous binder and filler, transporting the hot mix to work site , laying to the required grade,level and alignment, rolling with wheeled , vibratory and tandeem rollers to achieve the desired compaction as per MORTH Table-500-10 including all leads and lift cost of all materials, labour, HOM of machineries complete as per specifications MORTH Specification No.507	Cum.	108.28	6435.26	696809.95	108.28	696809.9528

Sl. No	Items grouped under Sub-heads and Sub-works of the estimate	Unit	Present Measurement			Total Up to date	
			Qty	Rate	Amount	Qty	Cost
20	KSRRB M500- 19. Providing, laying bituminousConcrete using 40/60 TPH capacity H.M.P with Mechanical paver Gr II(30mm to 45mm), crushed aggregates of specified grading premixed with 5.4% VG 30 grade bituminous binder and filler , transporting the hot mix to work site , laying to the required grade,level and alignment, rolling with wheeled , vibratory and tandeem rollers to achieve the desired compaction as per MORTH Table-500.9 including all leads and lift cost of all materials, labour, HOM of machineries complete as per specifications MORTH Specification No.509	Cum.	249.17	7270.54	1811600.45	249.17	1811600.452
21	Lead for disposal of earth shall be payable at Carriage rates (Lead & Lift) by mechanical means including loading and unloading up to 7kms.	Cum.	385.37	90.40	34837.45	385.37	34837.448
22	KSRRB M800-13. Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803	Sqm	197.10	542.72	106970.11	197.10	106970.112

Sl. No.	Items grouped under Sub-heads and Sub-works of the estimate	Unit	Present Measurement			Total Up to date	
			Qty	Rate	Amount	Qty	Cost
23	KSRRB M800-35. Supply and installtion of moulded Shank Raised Pavement Markers made of polycarbonate and ABS (Acrylonitrile Butadiene Styrene) moulded body and reflective panels with micro prismatic lens capable of providing total internal reflection of the light entering the lens face and shall support a load of 16000 kg tested in accordance to Specifications of Category A of MORTH Circular No RW/NH/33023/10-97 - DO III Dt 11.06.1997. The height, width and length shall not exceed 50 mm, 100 mm and 102 mm and with minimum reflective area of 13 sqcm on each side and the slope to the base shall be 35 degree. The srength of detachment of the integrated cylindrical shanks, (of diameter not less than 19mm and height not less than 30mm) from the body is to be a minimum value of 500 Kg. Fixing will be by drilling holes on the road for the shanks to go inside, without nails and using	Nos	319.00	359.34	114629.46	319.00	114629.46
		TOTAL			4434750.62		4434750.62
24					88695.01		88695.01
25	Cost towards preparation of DPR PMC / QC @ 2 %				75893.00		75893.00
26	Cost of plastic @ 8% bitumen qty for BC				399127.56		399127.56
		KRIDL Charges 9%			4998466.19		4998466.19
		GRAND TOTAL					

Assistant Executive Engineer
Yelahanka Satellite Town Sub Division
BBMP Bangalore

Ward no 03
Assistant Engineer